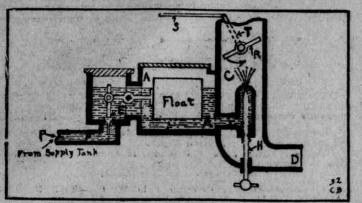
Number 32.

THE CARBURETER (Continued).

In my last talk I told you how the gasolene is made to spray out of the ale of my carbureter, how it is mixed with air, and how, by controlling the ing of the nozzle, the quantity of gasolene to air is controlled. I also told that the nozzle opening must be about 1-32 of an inch above the level of States have decided to hold their second ene in the float or supply chamber. Let me now tell you how this

ning "O" he unobstructed. The gasolene could then flow in from the , which is connected to the supply tank. As it enters it will raise the



float until it is at such a height as to press down on the needle (through the lever) and so close the opening of the pipe "P".

If gasolene be drawn from the chamber through the spray nozzle the level will tend to lower and so the float tend to drop. In doing so it will raise the needle and thus permit fresh gasolene to enter until the gasolene drawn through the nozzle has been replaced and the old level is reestablished. So you see the level of the gasolene in the chamber "A" will be maintained by the action of the float and its needle. The latter with the float and the opening it controls is called the float valve.

To go over the action of the carbureter as far as we have studied it (which would be a fair carbureter for a constant speed engine) we see that when the engine is on its suction stroke a vacuum is created which will extend to the manifold and the carbureter, thus causing a spray of gasolene to supponing "D," which air, as it goes to the cylinder, will pick up and mix with the spraying gasolene, thus causing an explosive mixture to enter the cylinders. As the gasolene sprays out of the nozzle the level in the float chamber will be lowered and thus the float to frop, causing the needle "E" to rise, and is the opening "P" be unobstructed by the needle. Fresh gasolene will thus the float chamber to take the place of that carried to the cylinders.

The carbureter, as explained so far, would be all right for a single speed, and be able to overcome varying loads. There must, therefore, be a number plans additions to the carbureter as explained so far.

First, let us see how the speed of the engine is varied. This is dene by means of a throttle or butterfly vaive "R", which, when nearly closed, will allow but a small amount of the mixture to pass and enter the cylinders, thus giving but a mild explosion. When the throttle is fully opened, however, a closed.

but a mild explosion. When the throttle is fully opened, however, a harge of mixture will reach the cylinders and the explosion will be ful. When the explosion is powerful the piston will be driven down than with the milder explosion, and so the engine and car speed will be

The throttle or butterfly valve is operated by hand by a lever on top of the steering column, or by the foot pressing on the accelerator. Both of these, through a series of bell cranks and sliding connections, operate on the rod "S", pushing it to the right or left. You will note that when the rod "S" is moved to the right it will, by acting on the lever "T" (shown dotted), revolve the butterfly valve "R" in a direction opposite to that shown by the arrow, thus checking the flow of the mixture, while when it is moved to the left it will open the butterfly and so let the full charge reach the cylinders. When we give the engine "more gas," as the saying is, we open the throttle or butterfly and as explained above.

PLANS COMPLETED FOR DEALERS' SHOW

Fine Closed Car Exhibit Will Open on November 14.

nc., of New York, will hold a closed ibition in the Twelfth Regiment

That the New York representative

by W. A. Wood (Peerless), president of the association; W. C. Poertner (National and Durant), A. G. Southworth (Bulck), L. J. Eastman (Packard) and H. S. Houpt (Hudson and Essex).

A sanction for the show has been granted by the National Automobile Chamber of Commerce. Drawings for space by the different dealers will be held at the rooms of the Dealers Association at 1845 Broadway on Wednesday, Nov. 2, at 12:30 P. M., when luncheon will be served.

J. J. COLE EXPLAINS CUT IN PRICE OF COLE 8

Cole aero-eight in 1918, when it was first put on the market. This price has been established on a basis of cost replacement on materials now on hand and represents as nearly as can be estimated the lowest cost at which Cole cars can ever seil."

It is the firm conviction of the officials of the Cole company that a general resumption of business is in sight. Plans are now being laid for an active selling and advertising campaign involving strong support of the Cole dealer in his own territory.

One of the features of the recent Danbury, Conn., fair that interested thousands of owners of automobiles was a demonstration by the Acheson Olidag Company of the unusual lubricant known as "Olidag." An automobile in which this lubricant had been used for

The mixture entering the cylinders must always be in the same propor-tion of gas and air. Therefore, the carbureter as above will not do and some-thing must be added to allow more air to enter at the higher speeds. How

J. B. Hulett, the genial Chandler dealer, has returned from a shooting trip in Canada. He was up there long enough to get the deer head he has

MAKE A BIG STIR

Sensational Exhibit at Columbus Circle Attracts Unusual Crowds at Once.

complishment of a plan which his party has been developing for a per standard equipment and so is allemite chassis lubrication.

Riding comfort has been given particular attention. The back cushions of the scats were especially designed on a new principle; the springs are longer, and the car is lower without sacrifice of head room.

BIG INTEREST IN ESSEX

ur greatly increased sales of Essex cars

our greatly increased sales of Essex cars
last week says Harry S. Haupt, the
Hudson and Essex distributer.

"The new prices mark a reduction of
\$600 on open models since September of
iast year, and \$250 since June of this
year, and the present price is \$180
lower than the Essex has ever sold for.

"Of added interest to the buyer is the
fact that these new and lower prices apply to the new and improved model that
retains all the advantages of the old
Essex, together with smoother operation, greater reliability and freedom
from service attention which are combined in the new car.

"The original appeal of the Essex car
was to those who wanted a larger car
performance and reliability with small
operating economy at low cost.

"More than \$0,000 Essex cars are
now in use, and the new prices enlarge

SUBSTANTIALLY CUT

dealer, has returned from a shooting trip in Canada. He was up there long enough to get the deer head he has promised us for three years, but, as usual, he is back again without one. While his shooting is no better, his excuses this time are nearer the truth, we think, than any he has ever lugged across the border.

Joe Grondahl, who is now a golf ball manufacturer, told us a week ago he was also a golf player. Last Sunday on the links we got the truth. He is only a golf ball manufacturer.

Broken Rives.

Broken Rives.

In case a rivet in the frame or other location is found to be broken, a very acceptable repair may be made by running a bolt through the rivet hole and clinching it with a nut on the other end.

Special foreaction. The touring car and runabout down to \$2,350, the coupe to \$3,125 and the sedan to \$3,350. This represents on the touring car a reduction of 35.4 per cent. from the originally announced price. The single car for storing the side curtains.

In all models careful consideration has been given to the placing of the was also a golf player. Last Sunday on the links we got the truth. He is only a golf ball manufacturer.

Broken Rives.

Broken Rives.

In case a rivet in the frame or other location is found to be broken, a very acceptable repair may be made by running a bolt through the rivet hole and clinching it with a nut on the other end.

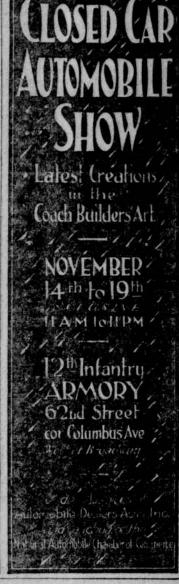
So that the car is extremely easy to the side curtains.

The sedan and coupe will undoubtedly take their place among the country's so that the car is extremely easy to price, The windows are mounted in rubber strips to insure against rattle, and clinching it with a nut on the other end.

So that the car is extremely easy to the placing of the place and control levers, so that the car is extremely easy to handle and driving comfort is assured.

The new rice to \$3,125 and the sedan to the touring car a reduction of \$3,250. This represents on the touring car a reduction of \$2,975, which was maintained until the car is extremely easy to the from \$4,250 to \$3,

ster, formerly \$1,770, now \$1,250;



you'll never know 'till you drive the New JORDAN

Thousands of people in this country have never known what a motor car thrill is-'till they drove this new Jordan.

Only after you know this rare and fascinating experience will you be able to judge its exceptional personality.

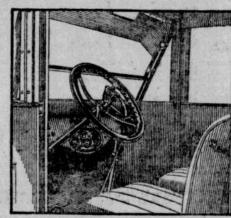
It's equipped with a new, powerful, exclusively Jordan motor - chain driven of course. You'll discover a nimble, electrifying something in this car which small boys call "a wallop."

Those who know value claim it's the best car that can be built at the price.

Comfort - no fatigue, just relaxation. Balance-it hugs the road, no sidesway.

It set the motor car style standard. Every body distinctive-that's style.

Performance—never varies in its day-in-and-day-out faithful duty. Gives 20 miles to the gallon.



Interior of New Jordan Brougham showing

In fact it's the motor car of the future. It is truly built to endure-to satisfy-to give highest motor car value at any price.

Only a ride in this new Jordan portrays its merits.

Come-drive the new Jordan yourself.

NEW JORDAN PRICES . \$2095 Playboy . 2995 Sedan Brougham . \$3200 Prices F. O. B. Factory

Dealers-No matter where you are-write or wire-your territory may be open

The best car that can be built at the price. BUY NOW with confidence Sherwood Automobile Corp.,

Broadway at 63rd Street New York City

Telephone Columbus 6812

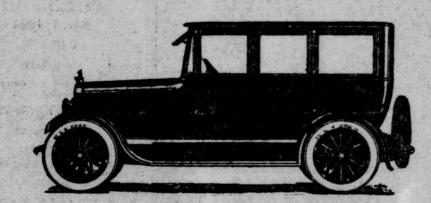
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Atlantic Avenue at Bedford Brooklyn, New York Prospect 4800

MOTOR CAR COMPANY, INC., Cleveland, Ohio

The SEDAN \$2505

"Built of the Best"



\$500 Lower Than Last December

Effective October 31st, Davis prices are again reduced to new low levels

NEVER BEFORE has a car of Davis quality been sold for a price so low.

Check these specifications and see if any car, similarly equipped, similarly designed, offers as much for your money! Continental 7R Motor, Timken axles, Borg & Beck

clutch, Warner Corporation transmission, Delco starting-lighting-ignition—the proved best of every-Many cars have one or two of these master units

for a "selling point." The Davis has all of them.
"Built of the Best" is our policy—and a fact. Compare this equipment with that of any cars Gabriel Snubbers (front and rear), two bumpers (front and rear), 4 U. S. Royal Cord tires, Moto-meter, winged aluminum radiator cap, clear-vision side curtains that open with the doors, nickel-plated

Every detail of the Davis is of the same highest standard as these proved units. Witness the rigid, over-strong 6-inch frame; the sturdy, coach-built bodies; the superfine leather upholstery in the open models, and the rich, long-wearing fabric of finest quality in the enclosed models.

The brilliant, long-lasting Davis finish has won the admiration of the finest coach builders in the country. Davis style is distinctive-Davis quality is proved by comparison.

We invite you to come to our showroom and check the Davis point for point with any car sold. Com-

NEW PRICES

Touring Car \$1695 Fleetaway \$1895 Man o' War \$1895 Sedan \$2595 Coupe \$2595

-at the factory, plus war tax.

protector rods on rear body panels. The Davis is completely equipped. There is nothing extra to buy. THESE PRICES EFFECTIVE OCTOBER 31, 1921 DAVIS MOTOR CORPORATION

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